MULTIVARIATE ANALYSIS

CHOOSING TEST AND CONCEPTUAL FRAMEWORK



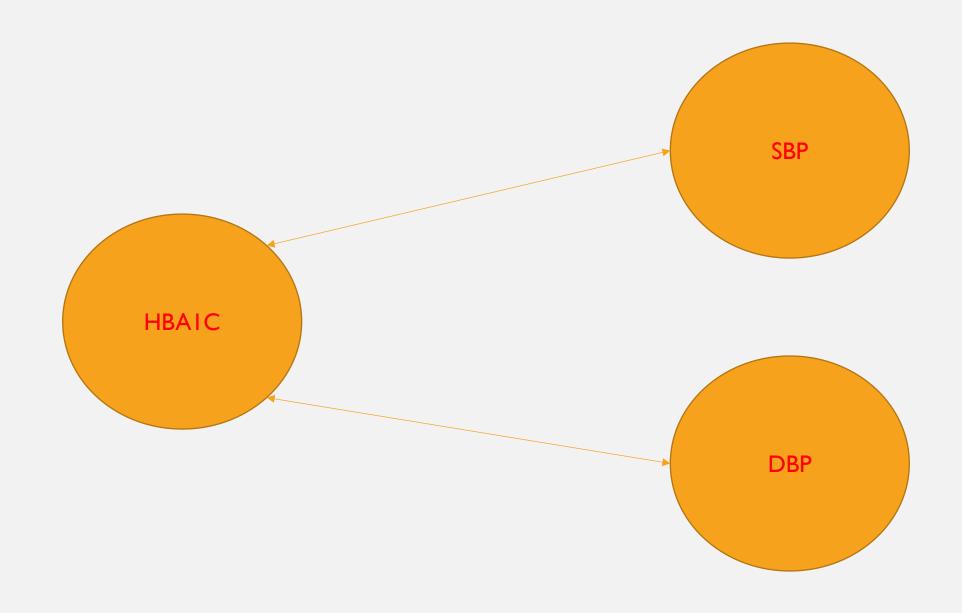
Adil ZA

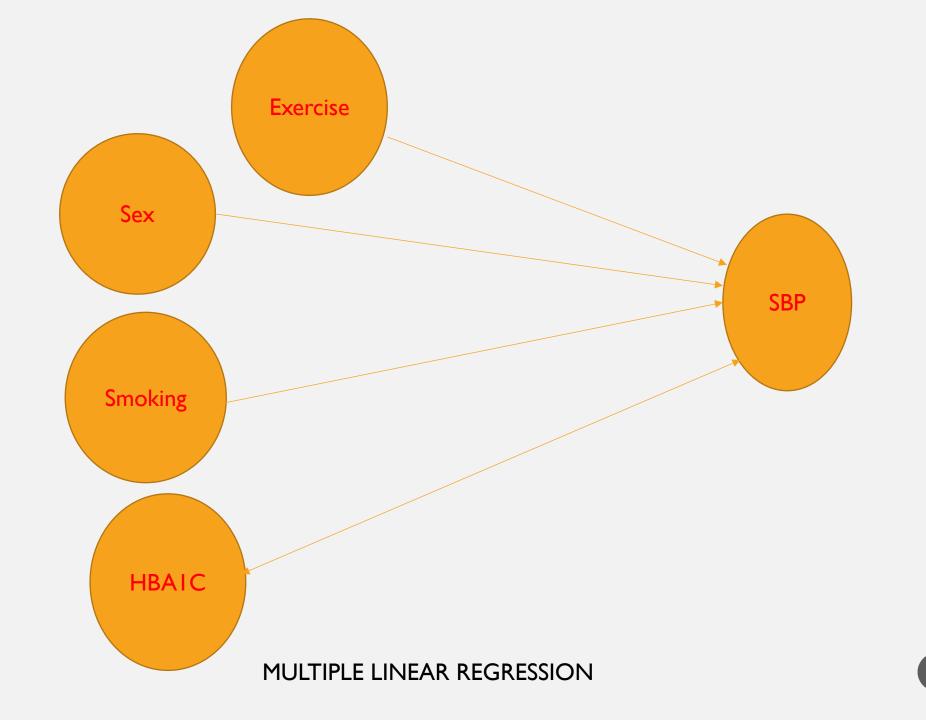
MBBS, DLSHTM, MSc, MPH, DrPH

IIUM BIOSTATISTIC WORKSHOP USING R

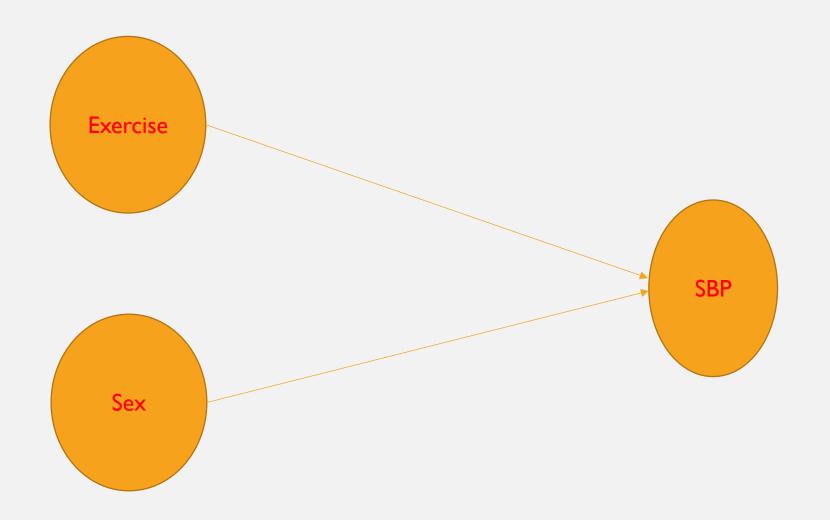
TYPE OF STATISTICAL TEST

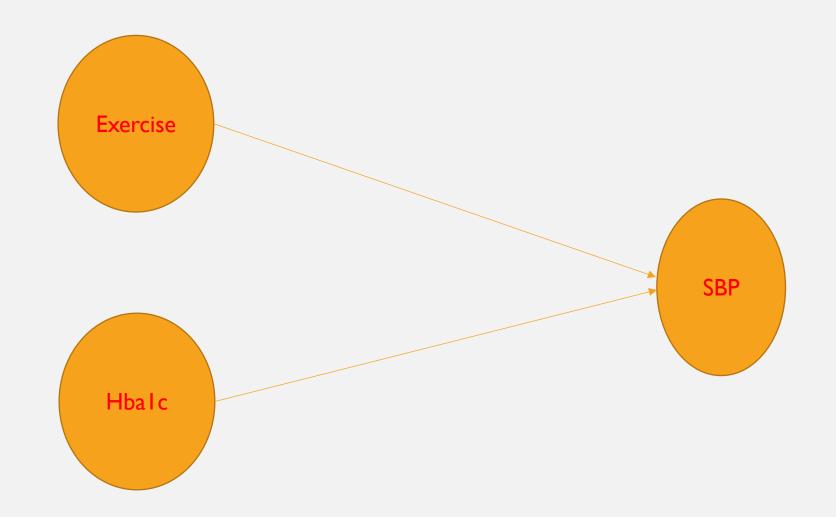
DV – Dependent/outcome IV -Independent/explanatory		DV			
		Categorical		Continuous	
		I DV 2 Category	I DV >2 Category	I DV	>I DV
IV	I IV, 2 Category Between subject	Chi square test		Independent t test	
	I IV, 2 Category Within subject			Paired t test	
	I IV, >2 Category btw subject			One-way ANOVA	One-way MANOVA
	I IV, > 2 Category w subject			RM-ANOVA	RM-MANOVA
	>1 IV, All Categorical	Binomial logistic regression	Multinomial logistic regression	2 Way ANOVA	2 Way MANOVA
	>1 IV, Mixed category and continuous			ANCOVA	MANCOVA
	I Continuous variable			Simple linear regression	Multivariate linear regression
	>I Continuous variable			Multiple linear regression	

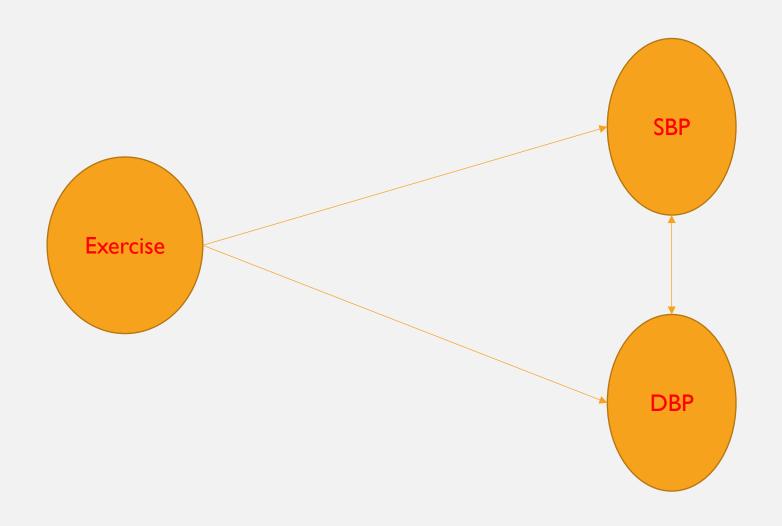


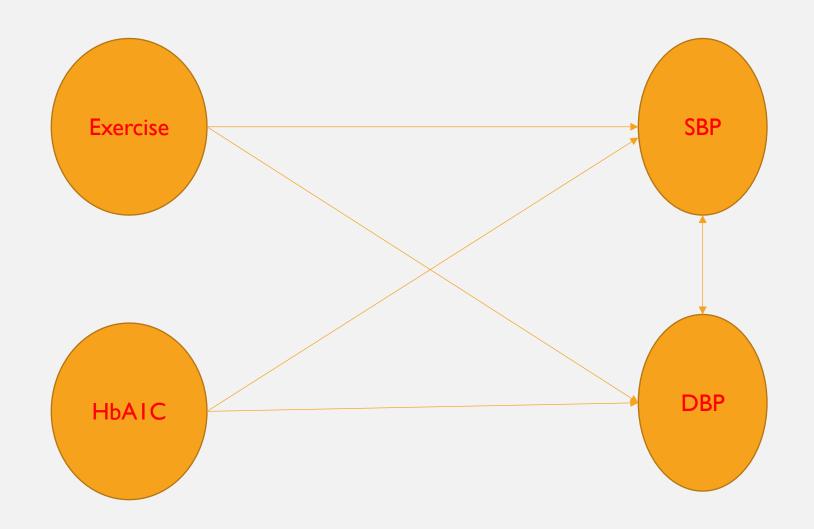


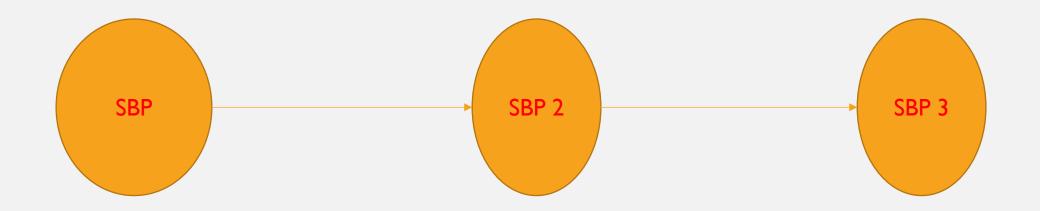


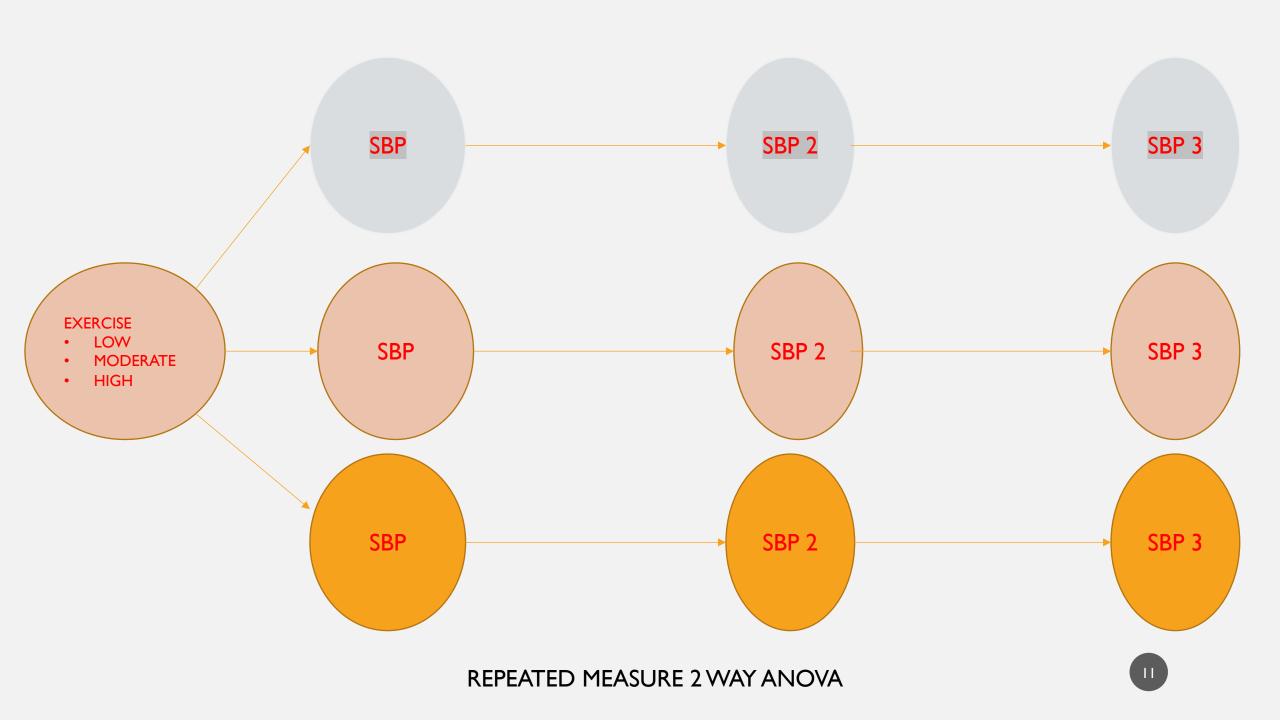




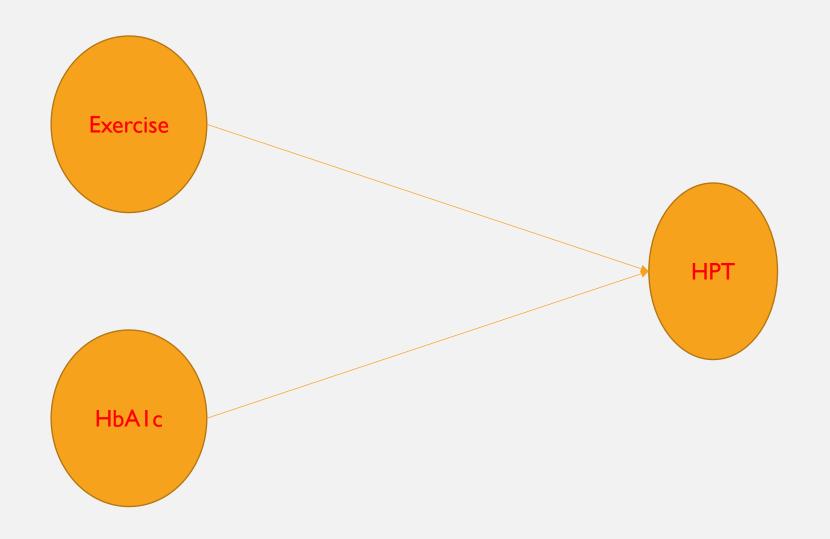












THANK YOU